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(21)Application number : 2001-049282 (71)Applicant : SHARP CORP

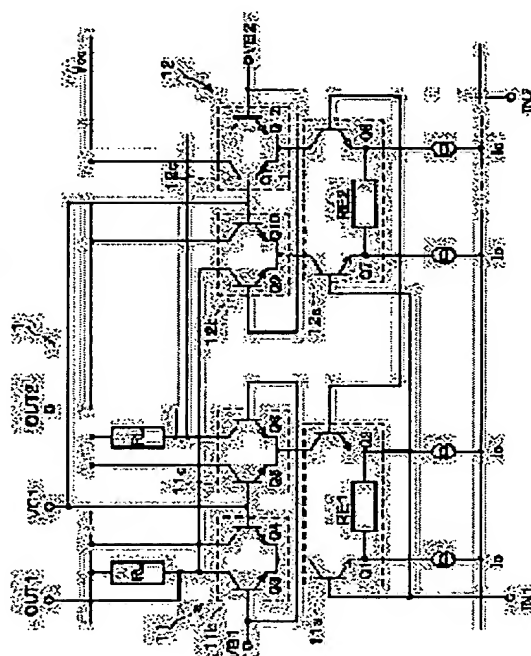
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(54) VARIABLE GAIN AMPLIFIER

(57)Abstract:

PROBLEM TO BE SOLVED: To satisfy both noise figure characteristic and intermodulation distortion characteristic simultaneously in variable gain amplifier.

SOLUTION: Variable gain amplifier circuits 11 and 12 attenuate gains in accordance with the increase of a control voltage inputted from the outside. A plurality of the circuits 11, 12 are connected in parallel. When a control voltage VC1 of the circuit 11 increases, the gains of the variable gain amplifier circuits start attenuation at the circuit 11 and the circuit 12 in the decreasing order of emitter resistance.



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